	Application No.	Applicant(s)
Notice of Allowability	10/696,632	HOVEL ET AL.
	Examiner	Art Unit
	Thanhha Pham	2813
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apportant or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. X This communication is responsive to 03/04/2004 and interv	<u>/iew dated 03/26/2005 &amp; 03/27/2005</u>	5.
2. 🔀 The allowed claim(s) is/are <u>10-27</u> .		
3. $\boxtimes$ The drawings filed on <u>04 March 2004</u> are accepted by the	Examiner.	
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the capacitation of the depose attached Examiner's comment regarding REQUIREMENT in the capacitation of the depose attached Examiner's comment regarding REQUIREMENT in the capacitation of the depose attached Examiner's comment regarding REQUIREMENT in the capacitation of the depose attached Examiner's comment regarding REQUIREMENT in the capacitation of the depose attached Examiner's comment regarding REQUIREMENT in the capacitation of the depose attached Examiner's comment regarding REQUIREMENT in the capacitation of the capacit	been received.  been received in Application No cuments have been received in this communication to file a reply ENT of this application.  itted. Note the attached EXAMINER' es reason(s) why the oath or declarate to be submitted. on's Patent Drawing Review (PTO- Amendment / Comment or in the Comment or in the Comment of the drawing he header according to 37 CFR 1.121(comment of BIOLOGICAL MATERIAL in the beautiful of the drawing to BIOLOGICAL MATERIAL in the second of the drawing to BIOLOGICAL MATERIAL in the second of the drawing to BIOLOGICAL MATERIAL in the second of the drawing to BIOLOGICAL MATERIAL in the second of the drawing to BIOLOGICAL MATERIAL in the second of the	national stage application from the complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.  948) attached  Office action of the back) of d).  nust be submitted. Note the
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 01/16/2004</li> <li>4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	6. Interview Summary Paper No./Mail Dat 7. Examiner's Amenda 8. Examiner's Stateme 9. Other SUPERMSC	

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Fischman on 05/26/2005 and 05/27/2005.

The application has been amended as follows:

- Cancel non-elected claims 1-9 and 28-35
- In claim 10,

line 8, after "structure" insert – for said source and drain metal electrodes – line 13, change "the entire Si surface" to – an entire Si surface of said Si substrate over which said buried oxide, said semiconductor layer, said gate insulator, said source and drain metal electrodes, and said gate electrode are located –

line 17, change "layers" to - layer -

In claim 12,

line 1, change "a protective layer" to - the protective layer -

In claim 13,

line 1, change "10" to - 12 -

In claim 20.

line 7, after "structure" insert – for said source and drain metal electrodes –

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line 12, change "the entire Si surface" to – an entire Si surface of said Si substrate over which said buried oxide, said strained Si layer on said SiGe layer, said gate insulator, said source and drain metal electrodes, and said gate electrode are located –

In claim 22,

line 1, change "a protective layer" to – the protective layer –

## Allowable Subject Matter

- 1. Claims 10-27 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: Recorded Prior Art fails to disclose or suggest the combination of the process steps for fabricating double gate FET test structures for electrical evaluation of a semiconductor layer on a buried oxide on a Si substrate as recited in the base claims 10 and 20 comprising: depositing source and drain metal electrodes on the gate insulator in geometric pattern including depositing a first metal electrode layer from the group consisting of Al, Er, Gd, Nd, Ti and Y followed by depositing a second metal layer from the group consisting of Ag, Al, Au, Cr, Cu, Mg, Ni and Pt to form an electrode structure for said source and drain metal electrodes; depositing a gate electrode between the source and drain metal electrode without contacting the source and drain metal electrodes; depositing a protective layer over an entire Si surface of said silicon substrate over which said buried oxide, said semiconductor layer, said gate insulator, said source and drain metal electrodes, and said gate electrode are located; creating individual isolated mesas of

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the protective layer to form a protective mask layer on the Si surface with the source, drain and gate electrodes residing within the boundaries of the mesas; removing the gate insulator and the semiconductor layer/the strained Si and the SiGe layers from regions

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-1696. The examiner can normally be reached on Monday and Thursday 9:00AM 9:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thanhha Pham